

## Calcot Schools Knowledge organiser – Science

Topic: Plants	Phase: Year 1	Strand: Biology																						
<p><b>Prior knowledge from previous year groups:</b></p> <p><b>Early Learning Goal</b> Children know about similarities and differences in relation to living things. They talk about the features of their own immediate environment and how environments might vary from one another. They make observations of plants and explain why some things occur, and talk about changes.</p> <p><b>Diagrams:</b></p>	<p><b>What will the children know by the end of the unit?</b></p> <p><b>Greater depth:</b></p> <p>What are the main parts of a plant/tree?</p> <p>What are the functions of the parts?</p> <p>What is the lifecycle of a plant/tree?</p> <p>What does a plant need in order to grow?</p> <p>What plants and trees can I identify at school or in my garden?</p> <p>What is the difference between evergreen and deciduous?</p> <p><b>Investigate!</b></p> <ul style="list-style-type: none"> <li>-Carnation and food colouring experiment to look at how water is transported through a plant.</li> <li>-Tree identification by using leaves</li> <li>-Testing out and comparing suitable locations for plants to grow.</li> <li>-Growing a plant in a ziplock bag to observe the roots.</li> <li>-Looking at and dissecting leaves and parts of plants under microscopes</li> <li>-Planning, setting up and observing a vegetable patch</li> <li>-Sorting and identifying seeds</li> </ul>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center;"><b>plant</b></td> <td>A living thing which usually grows from the ground.</td> </tr> <tr> <td style="text-align: center;"><b>The main parts of a plant</b></td> <td>flowers, leaves, stem, roots</td> </tr> <tr> <td style="text-align: center;"><b>The main parts of a tree</b></td> <td>crown, leaves, twigs, branches, trunk, roots</td> </tr> <tr> <td style="text-align: center;"><b>root</b></td> <td>Anchors the plant to the ground and takes nutrients from the soil.</td> </tr> <tr> <td style="text-align: center;"><b>stem</b></td> <td>Transports nutrients to leaves and flower.</td> </tr> <tr> <td style="text-align: center;"><b>leaves</b></td> <td>Where sunlight is changed into food.</td> </tr> <tr> <td style="text-align: center;"><b>flower</b></td> <td>The colourful part of the plant that attracts insects</td> </tr> <tr> <td style="text-align: center;"><b>seed</b></td> <td>The part of a flowering plant that can grow into a new plant.</td> </tr> <tr> <td style="text-align: center;"><b>life cycle</b></td> <td>The sequence of growing stages that a plant goes through</td> </tr> <tr> <td style="text-align: center;"><b>5 common plants to identify</b></td> <td>tulips, daffodils, roses, carnations, sunflower</td> </tr> <tr> <td style="text-align: center;"><b>5 common trees to identify</b></td> <td>silver birch, oak, fir, horse- chestnut, ash</td> </tr> </table>	<b>plant</b>	A living thing which usually grows from the ground.	<b>The main parts of a plant</b>	flowers, leaves, stem, roots	<b>The main parts of a tree</b>	crown, leaves, twigs, branches, trunk, roots	<b>root</b>	Anchors the plant to the ground and takes nutrients from the soil.	<b>stem</b>	Transports nutrients to leaves and flower.	<b>leaves</b>	Where sunlight is changed into food.	<b>flower</b>	The colourful part of the plant that attracts insects	<b>seed</b>	The part of a flowering plant that can grow into a new plant.	<b>life cycle</b>	The sequence of growing stages that a plant goes through	<b>5 common plants to identify</b>	tulips, daffodils, roses, carnations, sunflower	<b>5 common trees to identify</b>	silver birch, oak, fir, horse- chestnut, ash
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